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DRAWINGS - TWENTY-ONE (21) SHEETS

Applicant(s): Akihiro Tanaka et al.
Title: DATA BROADCASTING RECEIVING APPARATUS
AND METHOD
Attorney's
Docket No.: NAK1-BN78

"EXPRESS MAIL" MAILING
LABEL NO. EL852658832US

DATE OF DEPOSIT: February 5, 2001

FIG. 1

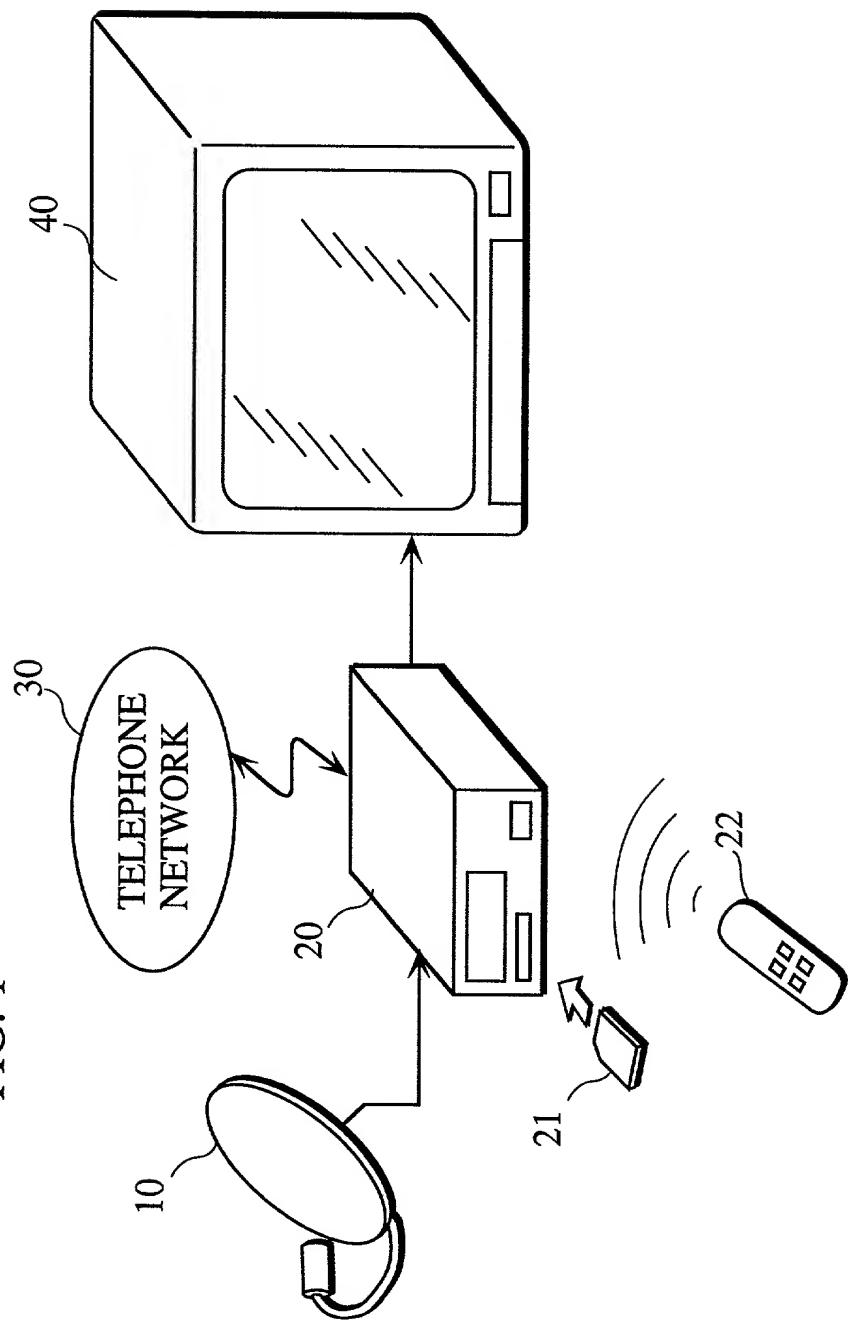


FIG. 2

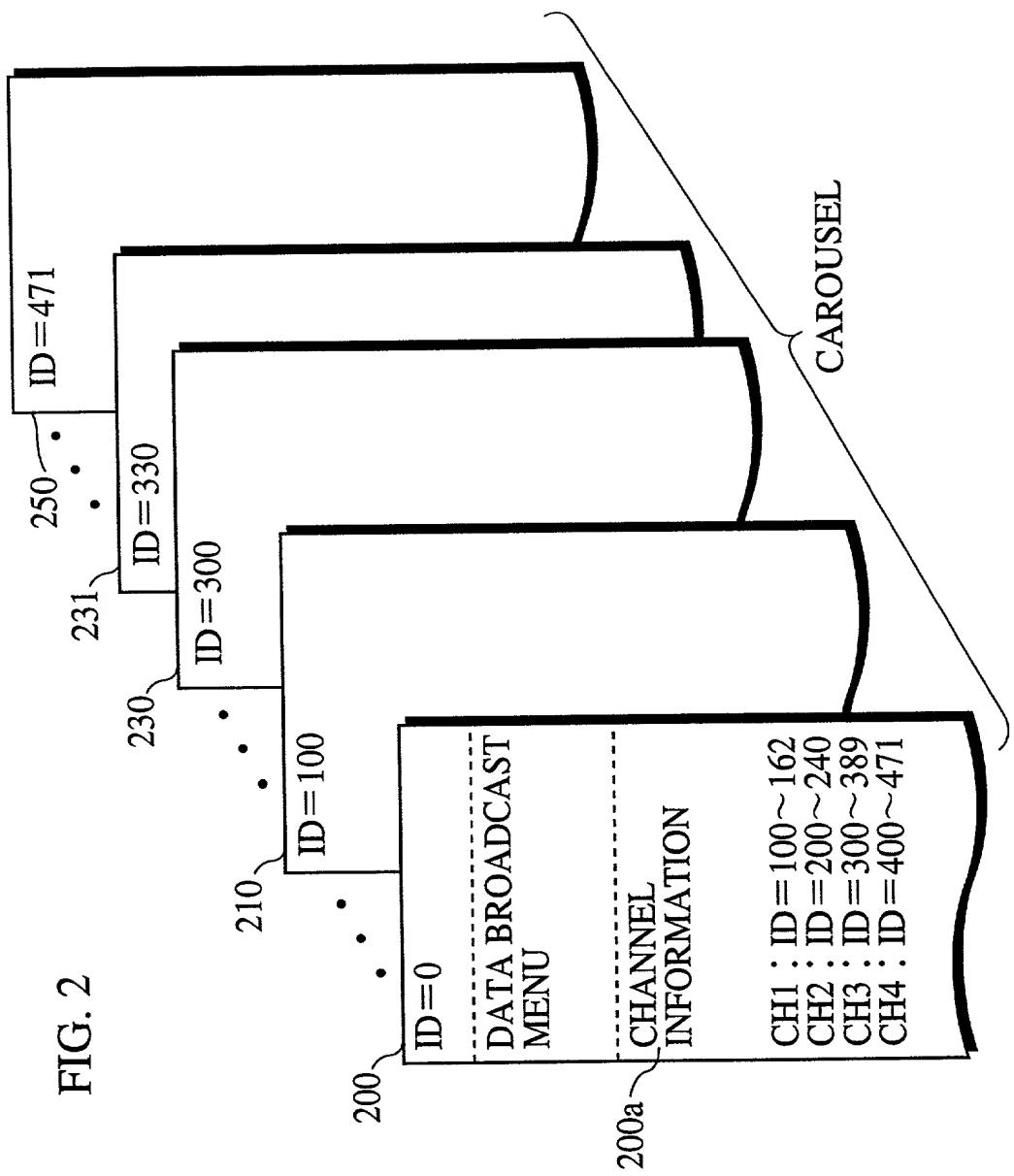


FIG. 3

ID	NAME	VERSION	TYPE	EXPIRY DATE
0	TOP_MN	13	JPEG	—
100	CH1_MN	8	JPEG	—
101	NEW_12	8	TXT	—
·				
·				
200	CH2_MN	7	JPEG	2000/01/14
·				
·				
210	KIN_WT	8	MIX	2000/01/14
220	KAN_WT	8	MIX	2000/01/14
·				
·				
300	CH3_MN	6	JPEG	—
330	CD_MN	15	JPEG	2000/01/10
340	BGM_MN	11	LIC	—
·				
·				

FIG. 4

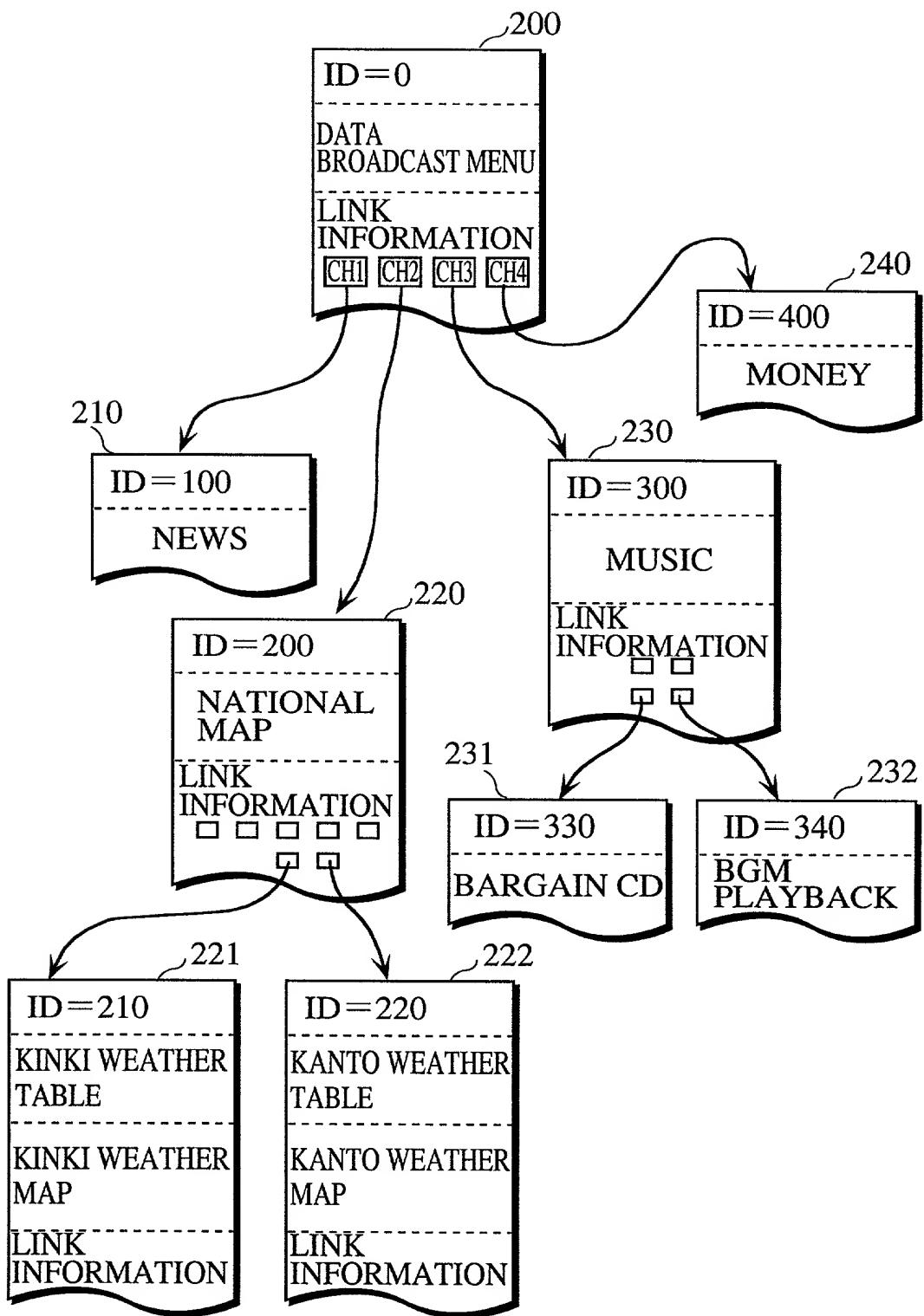
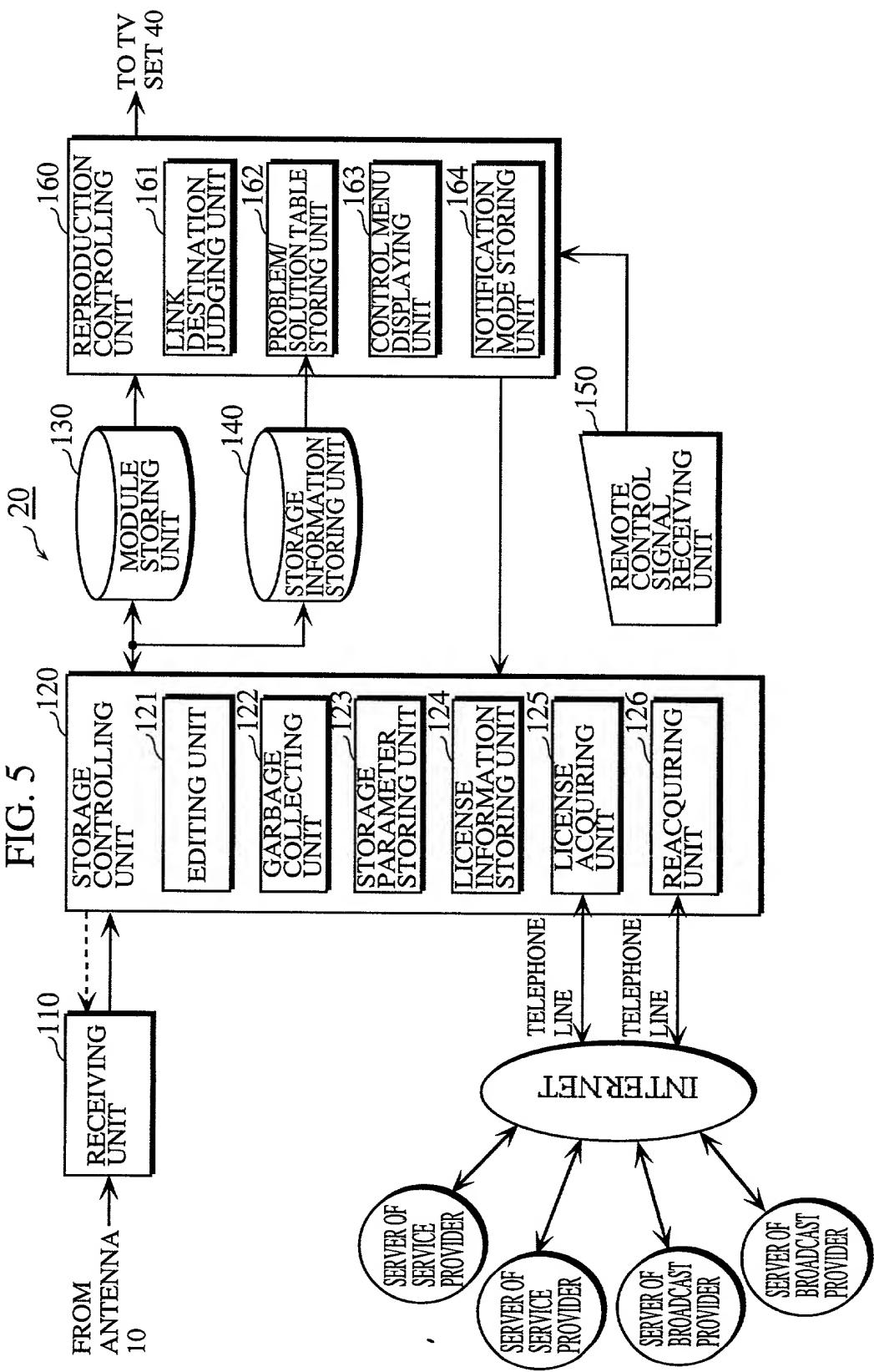


FIG. 5



STORAGE INFORMATION STORING UNIT 140

ID	NAME	VERSION	TYPE	EXPIRY DATE	STORAGE STATE	PROBLEM ID	SOLUTION ID
0	TOP_MN	13	JPEG	—	STORED	—	—
100	CH1_MN	8	JPEG	—	NOT STORED	0	0
101	NEW_12	8	TXT	—	NOT STORED	0	0
·	·	·	·	·	·	—	—
200	CH2_MN	7	JPEG	2000/01/14	STORED	—	—
·	·	·	·	·	·	—	—
210	KIN_WT	8	MIX	2000/01/14	STORED	—	1
220	KAN_WT	8	MIX	2000/01/14	INCOMPLETE	2	—
·	·	·	·	·	·	—	—
300	CH3_MN	6	JPEG	—	STORED	—	—
330	CD_MN	15	JPEG	2000/01/10	NOT STORED	3	2
340	BGM_MN	11	LIC	—	NOT STORED	4	3
·	·	·	·	·	·	—	—

FIG. 6

PROBLEM/SOLUTION TABLE

FIG. 7

PROBLEM ID	PROBLEM MESSAGE	REMARKS	SOLUTION ID	SOLUTION MESSAGE	REMARKS
0	COMPLETION OF BROADCAST	DETECTED BY STORAGE CONTROLLING UNIT 120	0	TRY STORAGE AGAIN	ACQUISITION BY REACQUIRING UNIT 126
1	HIGH BIT ERROR RATE	DETECTED BY RECEIVING UNIT 110			
2	LIMITED STORAGE SPACE	MODULE STORING UNIT 130	1	DELETE UNNECESSARY DATA	MESSAGE DISPLAY
3	EXPIRATION	DELETED BY GARBAGE COLLECTING UNIT 122	2	STORE LATER VERSION	ACQUISITION OF VERSION INFORMATION FROM STORAGE INFORMATION STORING UNIT 140, AND ACQUISITION OF LATER VERSION BY RECEIVING UNIT 110
4	NONPAYMENT	LICENSE INFORMATION	3	ACQUIRE LICENSE INFORMATION	ACQUISITION BY LICENSE ACQUIRING UNIT 125
5	DELETION BY USER EDIT	DETECTED BY EDITING UNIT 121	4	ACQUIRE AGAIN	ACQUISITION BY RECEIVING UNIT 110
:	:	:	:	:	:
:	:	:	:	:	:

FIG. 8

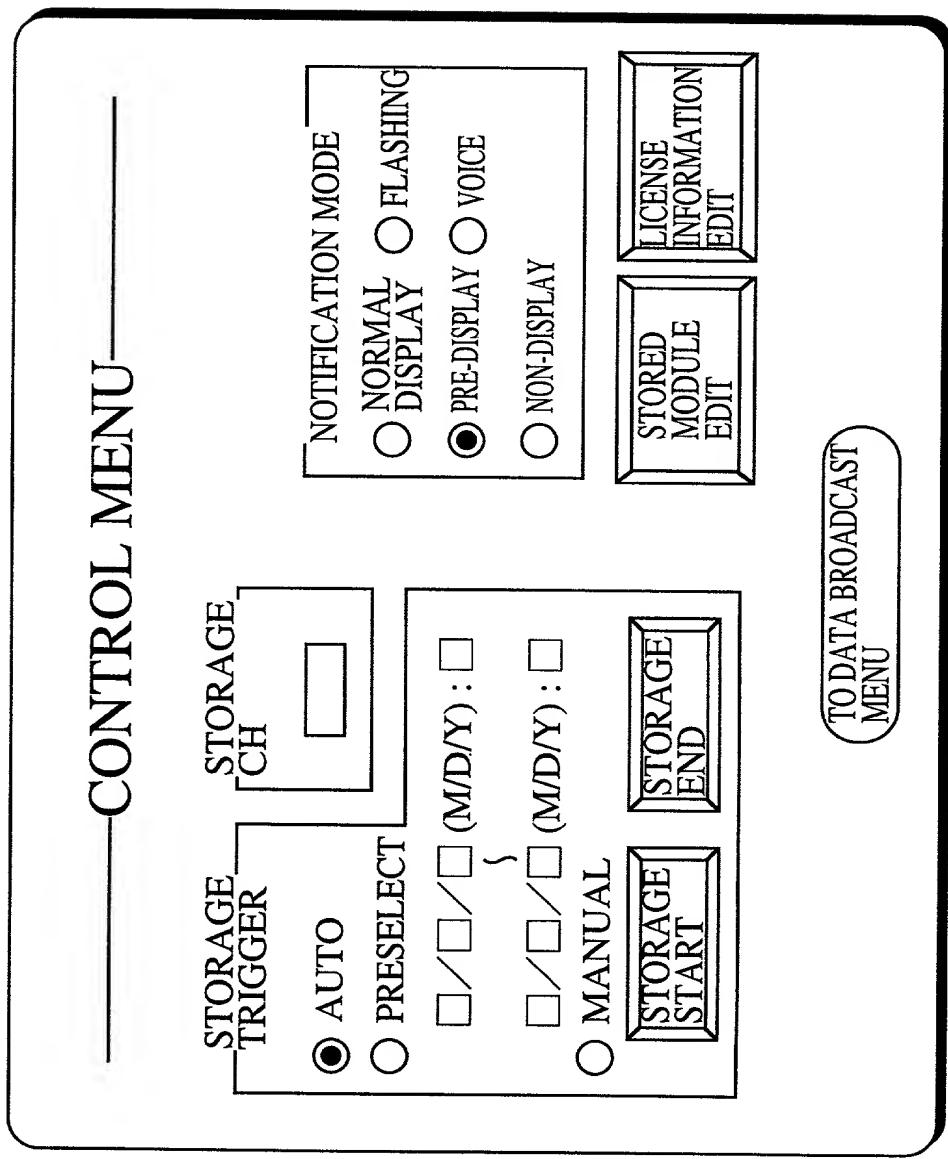


FIG. 9

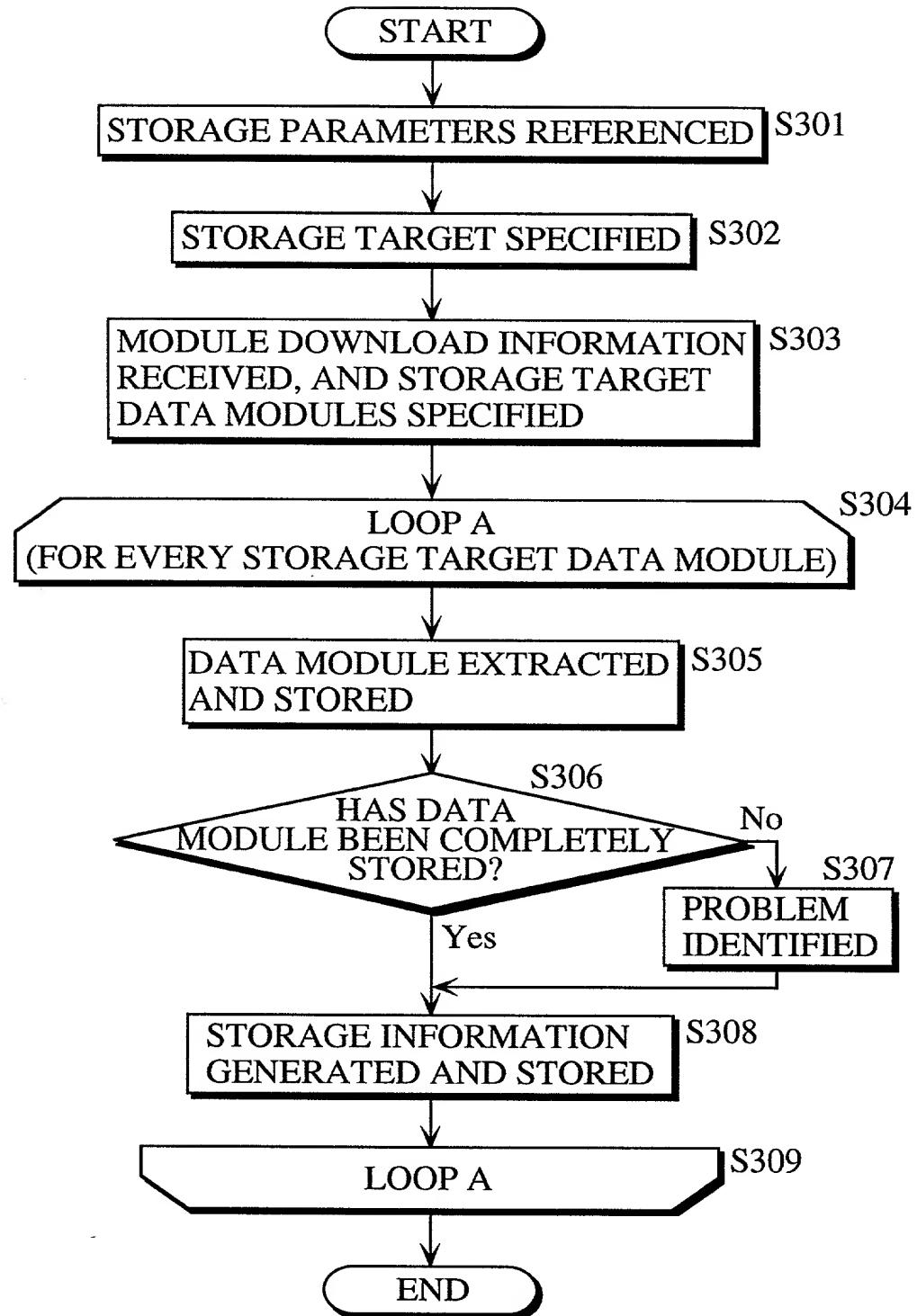


FIG. 10

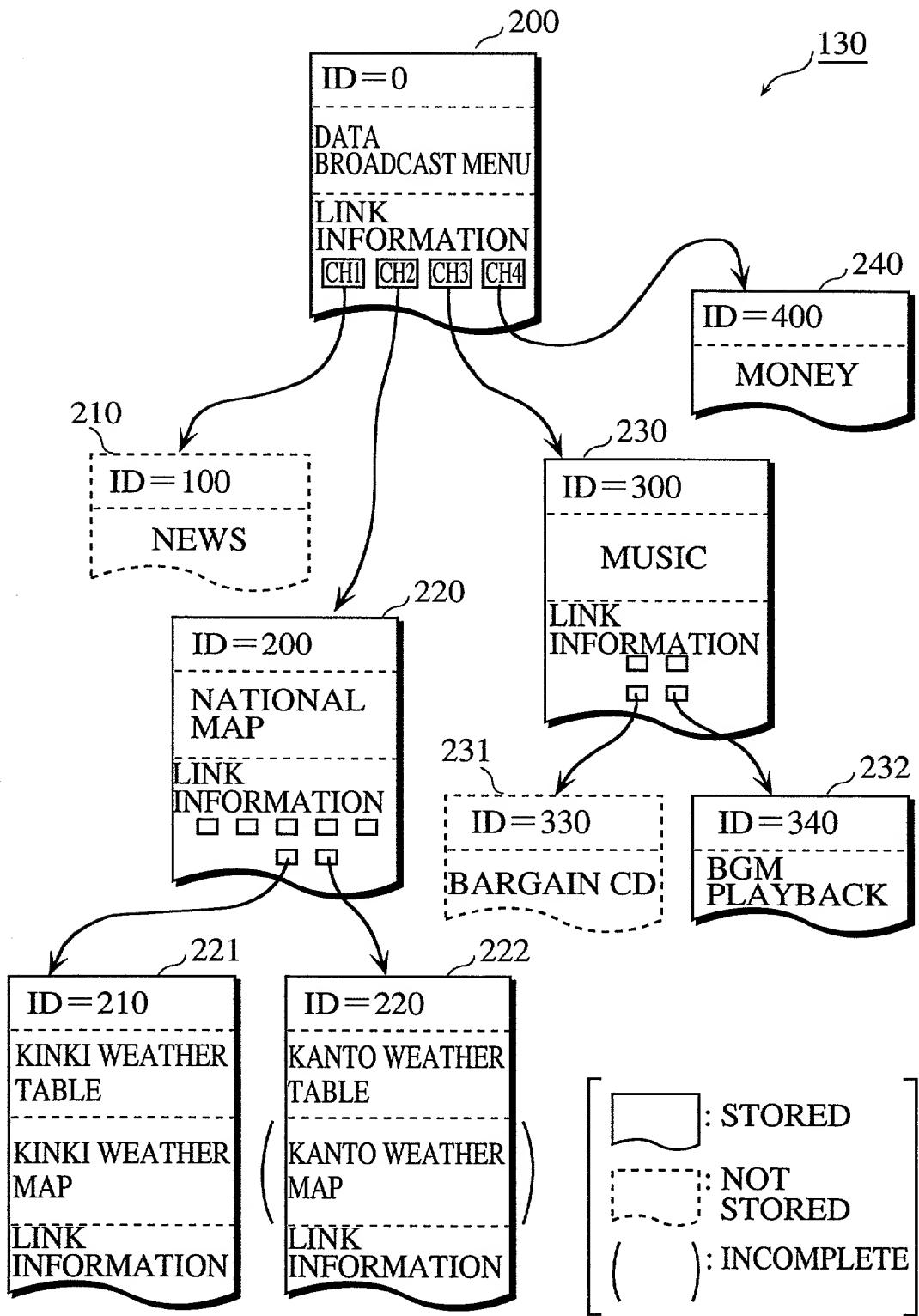


FIG. 11

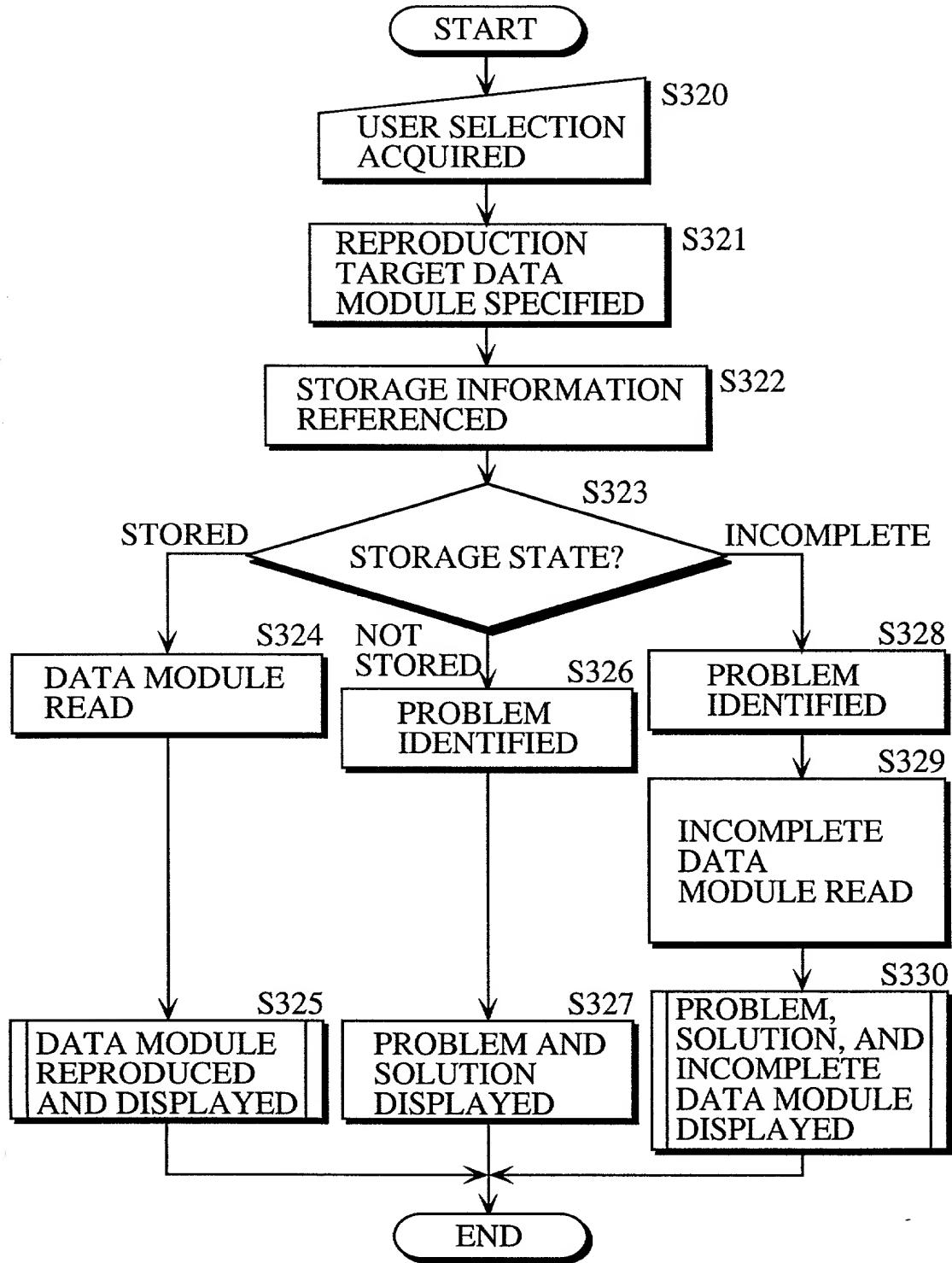


FIG. 12

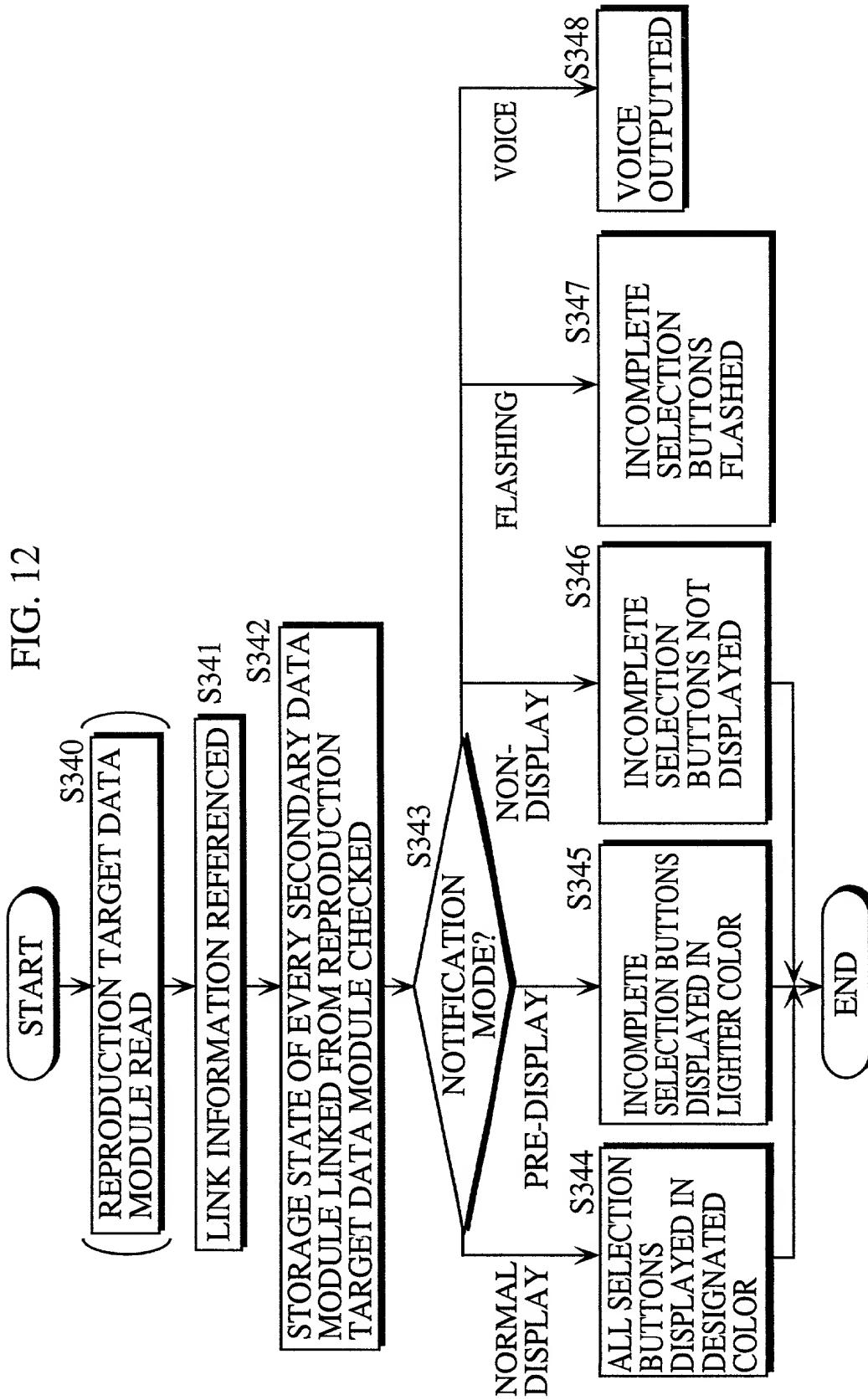


FIG. 13

ID=0

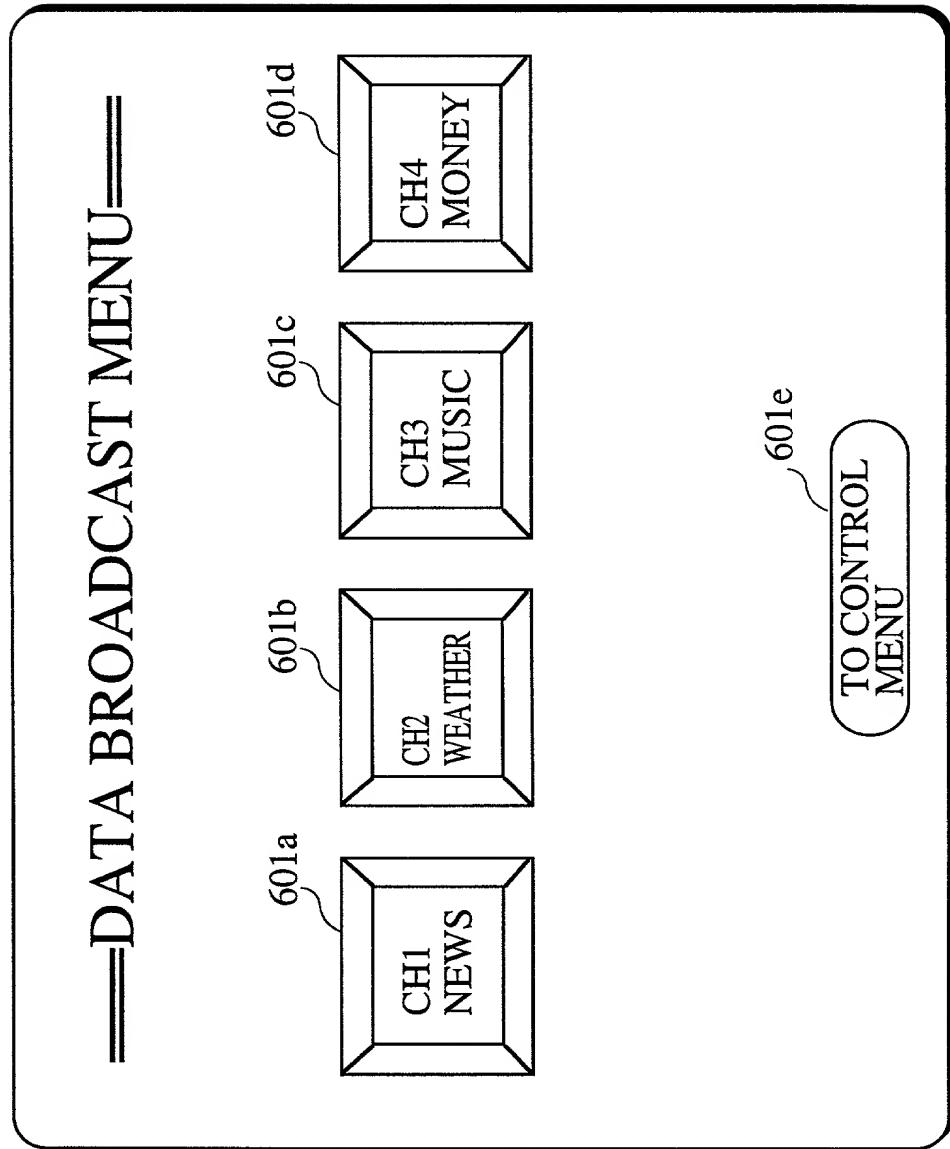


FIG. 14

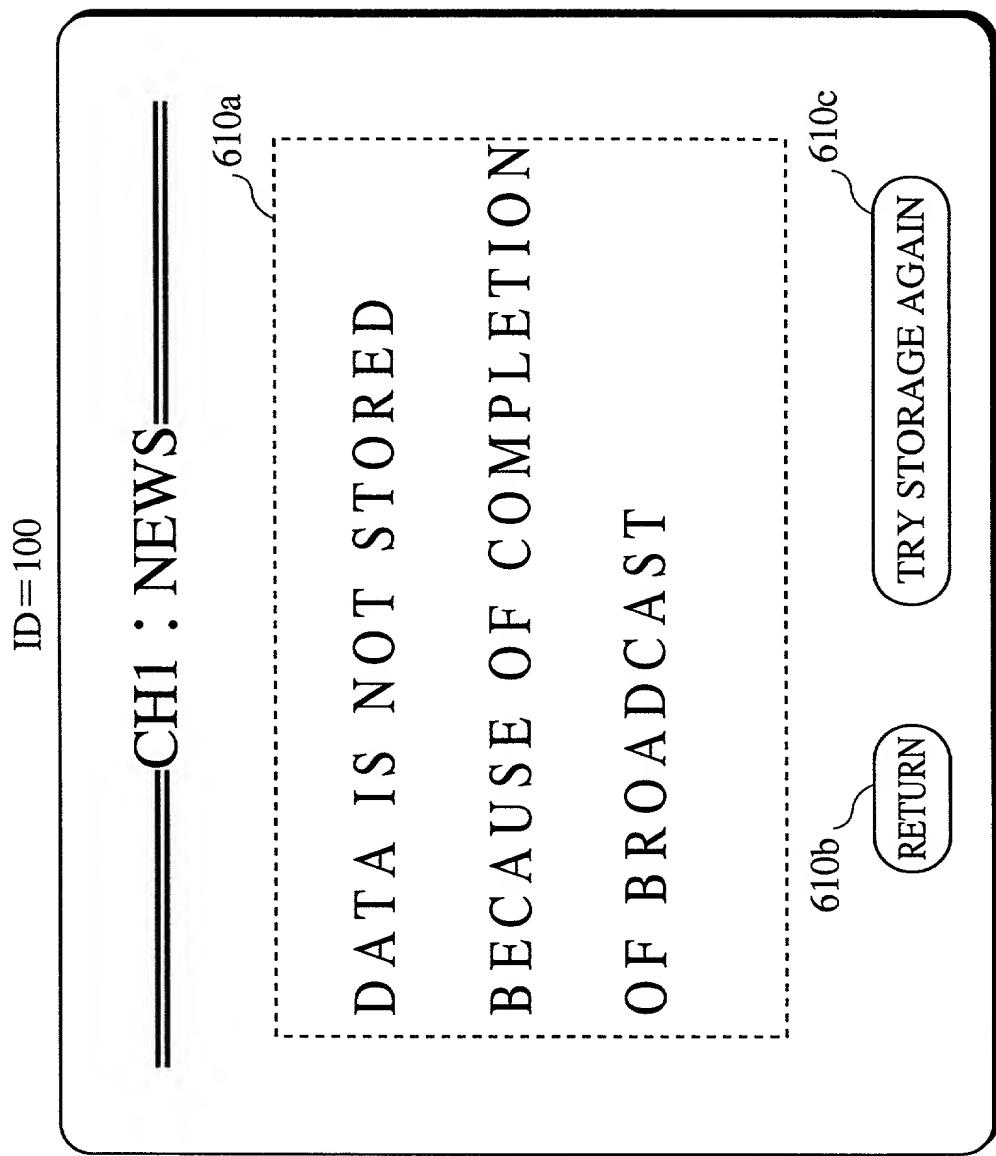
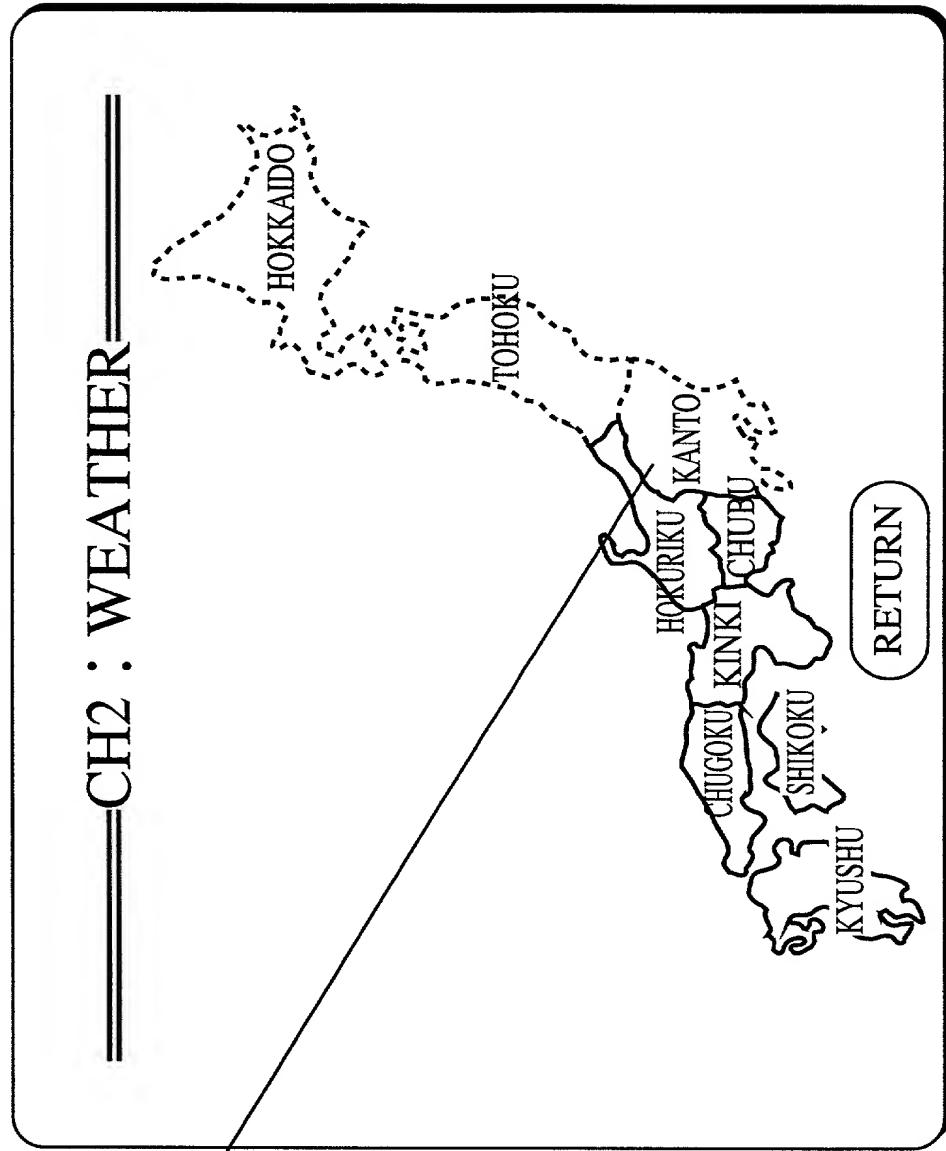


FIG. 15

ID=200



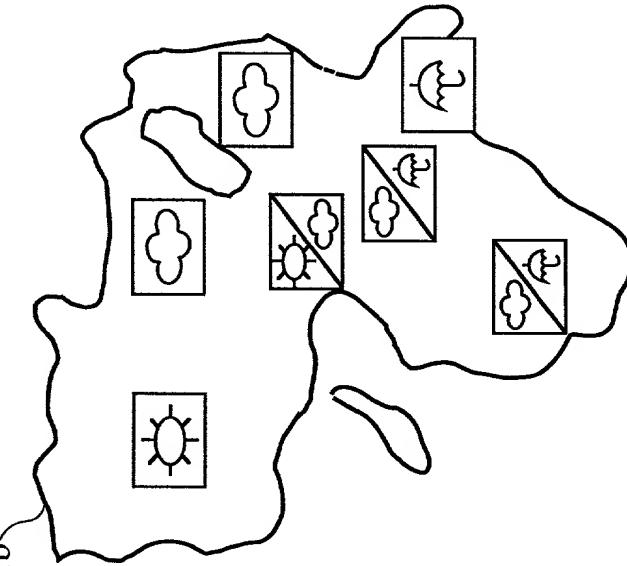
```
<A HREF=~"/220/KANTO.bml">  
<IMG SRC="KANTO DARK.png"  
link_ext="KANTO LIGHT.png"  
</A>
```

FIG. 16

ID=210

CH2 : WEATHER/KINKI

621b



621a

HYOGO	SUNNY
KYOTO	CLOUDY
OSAKA	SUNNY, LATER CLOUDY
SHIGA	CLOUDY
NARA	CLOUDY, LATER RAIN
WAKAYAMA	CLOUDY, LATER RAIN
MI	RAIN

RETURN

FIG. 17

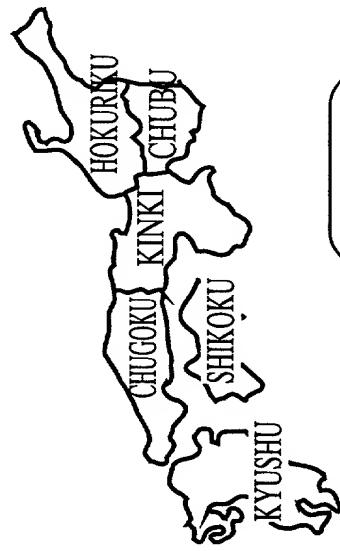
ID=220

CH2 : WEATHER/KANTO	
DATA IS NOT STORED	
BECAUSE OF LIMITED	
STORAGE SPACE	
BARAKI	SUNNY
TOCHIGI	SUNNY
GUNMA	CLOUDY
SAITAMA	CLOUDY
TOKYO	SUNNY, LATER CLOUDY
CHIBA	SUNNY, LATER CLOUDY
KANAGAWA	RAIN
YAMANASHI	RAIN
DELETE UNNECESSARY DATA	
RETURN	

FIG. 18

ID=200

=====CH2 : WEATHER=====



RETURN

FIG. 19

ID=300

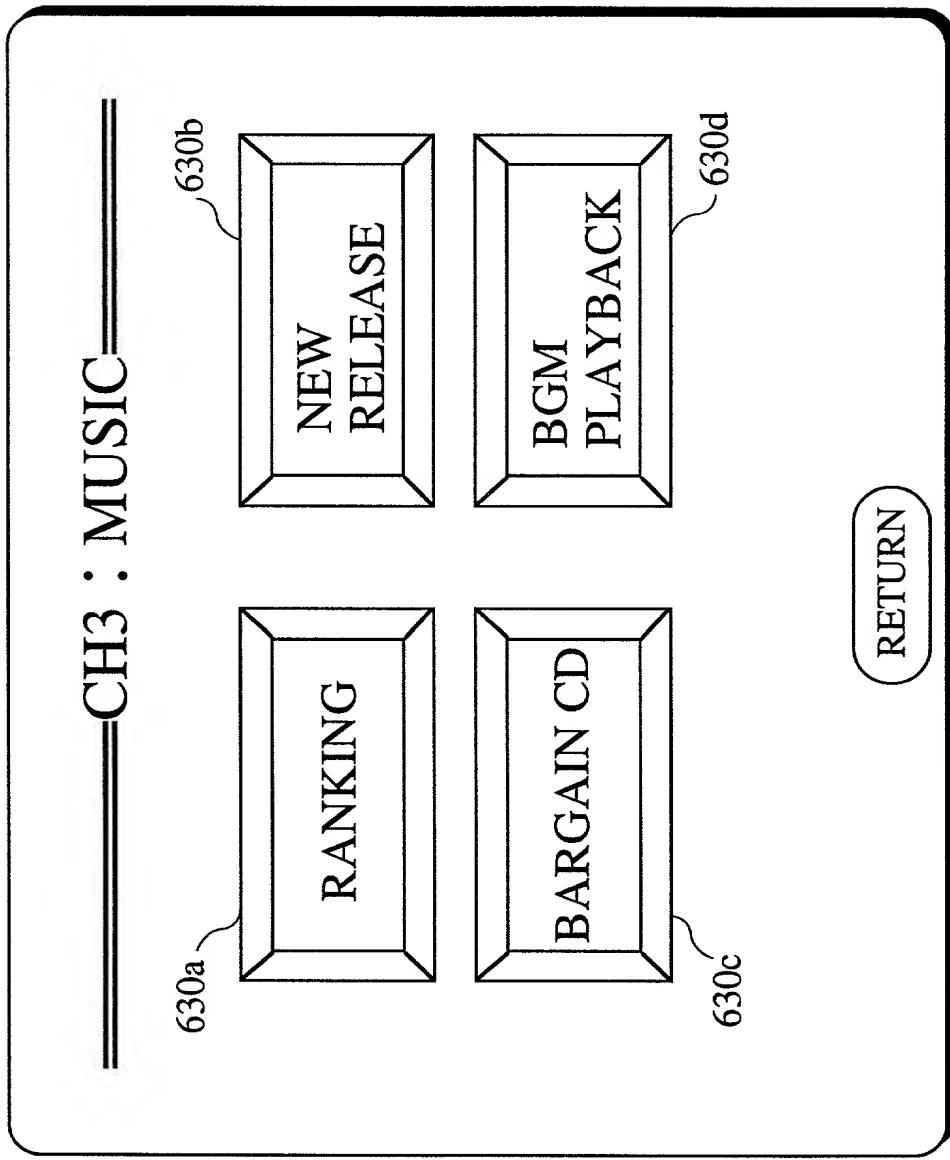


FIG. 20

ID=330

==CH3 : MUSIC/BARGAIN CD==

631

DATA IS NOT STORED
BECAUSE OF
EXPIRATION

RETURN

631a STORE LATER VERSION

FIG. 21

ID=340

=CH3 : MUSIC/BGM PLAYBACK=

632a

D A T A I S N O T
S T O R E D B E C A U S E
O F N O N P A Y M E N T

632b

RETURN

632c

ACQUIRE LICENSE INFORMATION